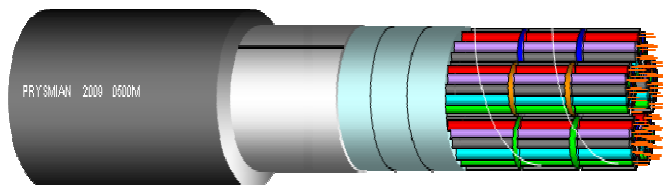


A-02YSF(L)2Y...x2x0.4 / 0.5 mm
(TDT 1093 Rev 01)

Foam-Skin-PE-insulated telephone cable, filled, moisture barrier sheath
Based Technical Specification for Twisted Pair Copper Telephone Cables Qtel MAT
1007 of Qatar Telecom



Application

Telecommunication cable for telecommunication and data transmission, suitable for laying in ducts.

Color Coding

Pair No.	1	2	3	4	5	6	7	8	9	10
a-wire	white	white	white	white	white	red	red	red	red	red
b-wire	blue	orange	green	brown	grey	blue	orange	green	brown	grey

Pair No.	11	12	13	14	15	16	17	18	19	20
a-wire	black	black	black	black	black	yellow	yellow	yellow	yellow	yellow
b-wire	blue	orange	green	brown	grey	blue	orange	green	brown	grey

Pair No.	21	22	23	24	25					
a-wire	violet	violet	violet	violet	violet					
b-wire	blue	orange	green	brown	grey					

Unit No. (upto 100)	1	2	3	4	5	6	7	8	9	10
Colour of unit lapping	blue	orange	green	brown	grey	white	red	black	yellow	violet

Unit No (above 100)	1	2	3	4						
Double	blue	orange								
Quadruple	blue	orange	green	brown						

Position of unit or multiple unit (> 100)	first (marker)	intermediate	last (reference)							
Colour of lapping	red	natural	green							

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A-02YSF(L)2Y...x2x0.4 / 0.5 mm
(TDT 1093 Rev 01)

Construction

A-02YSF(L)2Y	
Conductor	Copper, solid, 0.4 or 0.5 mm, soft annealed
Insulation	Foam-skin-PE (02YS)
Twisting	Cores twisted to pairs, Cables with 5 100 pairs: 10 pairs to form a unit, max. 10 units to form the cable core. Cables with > 100 pairs: 25 pairs to form a single unit, two units stranded to form a double unit of 50 pairs or four 25 pair units stranded to form a quadruple unit of 100 pairs.
Filling	jelly filling compound, drop point > 85 °C
Cable core wrapping	At least one layer of polyester tape
Ripcord	non-metallic ripcord under moisture barrier

Mechanical properties

Bending radius	without load	≥ 15xCable diameter mm
	with tension	≥ 20xCable diameter mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

Electrical properties

at 20°C± 5°C

Conductor diameter	mm	0.4	0.5		
Conductor resistance, max. for 1% of cases	0/km	150	96		
Conductor resistance, max. permissible average	0/km	143	91		
Resistance unbalance, average	%	2.0	1.5		
Resistance unbalance, individual	%	5.0	5.0		
NEXT (for 99% of cases)					
between any two pairs at 150 kHz	dB	≥ 58	≥ 58		
between any two pairs at 1 MHz	dB	≥ 48	≥ 48		
FEXT					
between adjacent pairs at 772 kHz	dB/km	≥ 56	≥ 56		
Nominal attenuation					
at 1600 Hz	dB/km	2.37	1.84		
at 1 MHz	dB/km	27.7	23.0		
Mutual capacitance at 800 Hz					
max. permissible average	nF/km	53	53		
max. for 1% of cases	nF/km	60	60		
These figures shall vary by 3% for 100, 200 and 300 pair cable					
Capacitance imbalance at 800 Hz					
pair-to-pair	pF/500	≤ 275	≤ 275		
pair-to-pair, permissible for max. 1% of cases	pF/km	> 275	> 275		
Insulation resistance	MOxkm	≥ 1500	≥ 1500		

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A-02YSF(L)2Y...x2x0.4 / 0.5 mm
(TDT 1093 Rev 01)

Technical data

Cable type	Pair count	Outer diameter	Weight	Max Delivery	Approx.		
		Approx		Length	Cu Weight		
		mm	kg/km	mm	Kg/Km		
A-02YSF(L)2Y	1200 PR/0.5 mm J/F	67.4	6804	450	4094		
	1200 PR/0.4 mm J/F	55.5	4441	600	2586		
	1000 PR/0.5 mm J/F	62.0	5711	500	3411		
	1000 PR/0.4 mm J/F	50.9	3718	800	2156		
	800 PR / 0.5 mm J/F	57.1	4695	700	2727		
	800 PR / 0.4 mm J/F	47.2	3071	900	1723		
	600 PR/0.5 mm J/F	50.3	3576	900	2046		
	600 PR/0.4 mm J/F	41.6	2345	1200	1293		
	400 PR / 0.5 mm J/F	41.0	2382	1200	1363		
	400 PR / 0.4 mm J/F	34.2	1579	1200	862		
	300 PR / 0.5 mm J/F	36.1	1817	1500	1020		
	300 PR / 0.4 mm J/F	30.0	1201	1500	645		
	200 PR / 0.5 mm J/F	30.3	1246	1500	681		
	200 PR / 0.4 mm J/F	25.4	834	1500	431		
	100 PR/0.5 mm J/F	22.7	659	2000	338		
	50 PR/0.5 mm J/F	17.7	371	2000	169		
	20 PR/0.5 mm J/F	13.2	184	2000	68		
10 PR/0.5 mm J/F	10.9	118	2000	34			
5 PR/0.5 mm J/F	9.3	80	3000	17			

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